

Title (en)

COMPACT SCANNING ELECTRON MICROSCOPE

Title (de)

ELEKTRONENMIKROSKOP MIT KOMPAKTER ABTASTUNG

Title (fr)

MICROSCOPE ELECTRONIQUE A BALAYAGE COMPACT

Publication

EP 2024750 A4 20110406 (EN)

Application

EP 07798254 A 20070607

Priority

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- US 81162106 P 20060607

Abstract (en)

[origin: WO2007143736A2] A compact electron microscope is robust, simple to operate, and preferably requires no special utilities. Imaging can begin shortly after a sample is inserted. A preferred simplified design includes permanent magnets for focusing, lack a vacuum controller and vacuum gauge, and uses a backscattered electron detector and no secondary electron detector.

IPC 8 full level

H01J 37/28 (2006.01); **F16J 15/50** (2006.01)

CPC (source: EP US)

H01J 37/16 (2013.01 - EP US); **H01J 37/18** (2013.01 - EP US); **H01J 37/185** (2013.01 - US); **H01J 37/20** (2013.01 - EP US); **H01J 37/21** (2013.01 - US); **H01J 37/226** (2013.01 - EP US); **H01J 37/244** (2013.01 - EP US); **H01J 37/26** (2013.01 - US); **H01J 37/261** (2013.01 - US); **H01J 37/28** (2013.01 - EP US); **H01J 37/302** (2013.01 - US); **H01J 2237/1405** (2013.01 - EP US); **H01J 2237/162** (2013.01 - EP US); **H01J 2237/1825** (2013.01 - EP US); **H01J 2237/188** (2013.01 - EP US); **H01J 2237/2003** (2013.01 - EP US); **H01J 2237/2006** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

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WO 2007143736 A2 20071213; **WO 2007143736 A3 20080717**; CN 101461026 A 20090617; CN 101461026 B 20120118; EP 2024732 A2 20090218; EP 2024732 A4 20110330; EP 2024732 B1 20121128; EP 2024733 A2 20090218; EP 2024733 A4 20110406; EP 2024733 B1 20141126; EP 2024750 A2 20090218; EP 2024750 A4 20110406; EP 2024750 B1 20140423; JP 2009540511 A 20091119; JP 2009540512 A 20091119; JP 2010257995 A 20101111; JP 2013033760 A 20130214; JP 5285036 B2 20130911; JP 5611586 B2 20141022; JP 5744821 B2 20150708; US 2010171037 A1 20100708; US 2010194874 A1 20100805; US 2010230590 A1 20100916; US 2011133083 A1 20110609; US 2015332891 A1 20151119; US 7906762 B2 20110315; US 8309921 B2 20121113; US 9025018 B2 20150505; US 9865427 B2 20180109; WO 2007143734 A2 20071213; WO 2007143734 A3 20080522; WO 2007143737 A2 20071213; WO 2007143737 A3 20080410

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